VOLUME 16 1986

SUBJECT INDEX

^{125}I-[Sar^{1},Ile^{8}]-AII, 75
  angiotensin II binding
  autoradiography
  spontaneously hypertensive rats
Abnormal extracellular matrix, 825
  exencephaly
  trisomy
Acetylcholine (ACh)
  aggressive-defensive reaction, 491
  calmodulin inhibitors, 673
  cats, 491
  hypothalamus, 491
  lesions, electrolytic, 491
  ouabain, 673
  potassium, 673
  protein phosphorylation, 673
  trityustoxin, 673
  trifluoperazine, 673
Acetylcholine release
  dopaminergic fibres, 689
  GABA receptors, 689
  invasion of varicosities, 171
  myenteric plexus-smooth muscle preparation, 171
  noradrenaline, 171
  nucleus basalis, 689
Adrenergic neurons, 63
  cytofluorimetric scanning
  reserpine
  sciatic nerve
alpha Adrenergic system, 463
  medial preoptic area
  sleep-wakefulness
Adrenoceptors, 697
  growth hormone secretion
  preoptic anterior hypothalamus
  prolactin secretion
Adrenocorticotrophic hormone (ACTH), 541
  capsaicin
  cold stress
  restraint stress
Adrenocorticotrophic hormone (ACTH)-proopiomelanocortin, 107
  cerebral cortex
  lateral hypothalamic innervation
  α-melanocyte stimulating hormone (α-MSH)
Adrenomedullary response, 11
  age differences
  hypoglycemia
  hypoxia
  neonates
  splanchnic innervation
Age differences, 11
  adrenomedullary response
  hypoglycemia
  hypoxia
  neonates
  splanchnic innervation
Aggression, 179
  bed nucleus, stria terminalis (BNST)
  cats
  stimulation, electrical
Aggressive-defensive reaction, 491
  acetylcholine (ACh)
  cats
  hypothalamus
  lesions, electrolytic
Alpha rhythm, 439
  frequency detection
  microprocessor
  sleep spindles
  synchronized electroencephalogram (EEG) activity
D-Amino acid oxidase, 853
  aneuploidy
  neuroblasts
  postnatal rodent brain
  tissue culture medium
Amphetamine binding sites, 281
  appetite
  glucose
  hypothalamus
Aneuploidy, 853
  D-amino acid oxidase
  neuroblasts
  postnatal rodent brain
  tissue culture medium
Angiotensin II (AII)
  atrial natriuretic polypeptide (ANP), 745
  blood pressure regulation, 745
  drinking, 249
  route of administration, 249
Angiotensin II binding, 75
  autoradiography
  ^{125}I-[Sar^{1},Ile^{8}]-AII
  spontaneously hypertensive rats
Animal models, 803
  chromosomal localization
  comparative gene mapping
  Down Syndrome
  trisomy
Antidromic activation, 131
  prefrontal cortex neurons
  threshold hunter
Apomorphine, 161
  dopamine release
  freely moving rats
  haloperidol
  striatum
Apparatus
  ALZET® osmotic mini-pumps, 759
  amplitude discriminator, 131
  cryoprobe, 557
  latency discriminator, 131
  push-pull cannula, 149
  super-conducting quantum interference device, 549
  threshold evaluation, 131
Appetite, 281
  amphetamine binding sites
  glucose
  hypothalamus
  Area postrema, 5
  copper sulfate
  dimethylphenylpiperazinium (DMPP)
  nicotinic receptors
  vomiting
Arginine vasotocin (AVT)-administration, 391
  CSF 5-HIAA levels
  5-HT turnover
Atrial natriuretic polypeptide (ANP), 745
  angiotensin II (AII)
  blood pressure regulation
Autonomic function, 355
  human spinal cord
  kappa opioid receptors
  sensory function
Autoradiography, 517
  ^{125}I-[Sar^{1},Ile^{8}]-AII, 75
  angiotensin II binding, 75
  cochlear nucleus, 189
  dopamine receptors, 517
  histamine-H1 receptors, 205
  3H-mepyramine binding, 205
  peripheral nerve, 537
  Purkinje cell degeneration, 205
  receptor distribution, 189
  retrograde axonal transport, 537
  serotonin receptors, 517
  [^{3}H] spiperone, 517
  spontaneously hypertensive rats, 75
  strain differences, 205
  ^{3}H N-succinimidyl propionate (^{3}H NSP), 537
Autosomal aneuploidy, 789
  developmental consequences
  trisomy
Autosomal trisomy, 767
  introductory comments
  mental retardation
  neurobiologic consequences
Avoidance acquisition, 645
  p-chloroamphetamine
  memory retrieval
  retention
  serotonin (5-HT)
Axon terminals, 259
  diffuse agranular label
  horseradish peroxidase (HRP)
  membrane-bound granular label
  wheat germ-agglutinin-horseradish peroxidase (WGA-HRP)

Bar press-related neurons, 15
  dorsolateral prefrontal cortex
  monkeys
Basal forebrain
  basal ganglia, 603
  cholinergic limbic projections, 477
  cholinergic systems, 603
  lesions, basal forebrain, 477

pontomesencephalic tegmentum projections, 603
sexual behavior, male rats, 477
tectum, 603
thalamus, 603
Basal ganglia, 603
basal forebrain
cholinergic systems
pontomesencephalic tegmentum projections
tectum
thalamus
BASIC computer program, 759
osmotic mini-pumps
weight-adjusted pump filling concentrations
Bed nucleus, stria terminalis (BNST), 179
aggression
cats
stimulation, electrical
Behavioral effects
l-dopa, 561
1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP), 561
monkeys, 561
neurotensin, 755
norepinephrine, 755
Parkinson's disease, 561
regional brain concentrations, 755
Benzodiazepine binding sites, 573
limbic system
radiography
Blood pressure regulation, 745
angiotensin II (AII)
atrial natriuretic polypeptide (ANP)
Brain
amygdala, 55, 755
anterior hypothalamic area (AHA), 681
anterior hypothalamus, 145, 477, 527
anterior insular cortex, 497
anterior thalamus, 603
area postrema, 5
basal amygdala, 477
basal forebrain, 477, 603
basal ganglia, 425, 517, 603
bed nucleus, stria terminalis (BNST), 179
brainstem, 281, 321
caudal brain stem, 121
caudal neurosecretory complex, 183
caudate nucleus, 425
caudate putamen, 145, 517, 603
central gray, 477
central medial thalamus, 603
cerebellum, 47, 205
cerebral cortex, 107, 321, 395, 689
cervical sympathetic ganglion, 713
cingulate cortex, 477, 573
claustrum, 517
cochlear nucleus, 189
corpus striatum, 321
cortex, 225, 399
diencephalon, 321
dorsal bundle, 47
dorsal hippocampus, 477
dorsal raphe nucleus, 469
dorsolateral prefrontal cortex, 15
dorsomedial hypothalamus, 231
entorhinal cortex, 477
entopeduncular nucleus, 603
fornix, 325
globus pallidus, 25, 603
habenula, 477, 603
hindbrain, 833
hippocampus, 19, 47, 107, 167, 299, 369, 483
hypothalamus, 93, 281, 309, 315, 321, 429, 491, 705, 755
inferior olivary nucleus, 739
infralimbic cortex, 497
insular cortex, 477
internal superior laryngeal nerve, 713
interpeduncular nucleus, 219, 477
jugular ganglion, 713
lateral geniculate, 603
lateral hypothalamus, 55, 107, 603
magnocellular preoptic nucleus, 477
magnocellular preoptic/ventral pallidal area, 603
mamillary nucleus, 477
medial habenula, 219
medial longitudinal fascicle, 183
medial prefrontal cortex, 127
medial preoptic area, 463, 469
medial septal nucleus/vertical limb of the diagonal band area, 603
mediodorsal thalamus, 603
mesencephalic locomotor region, 377, 383
midbrain, 833
midline thalamus, 545
motor cortex, 517
neocortex, 47
neostriatum, 33
nodose ganglion, 713
nucleus accumbens, 33, 145, 377, 517, 689, 755
nucleus ambiguus, 231
nucleus basalis, 689
nucleus tractus solitarius (NTS), 325, 497, 713
occipital cortex, 549
olfactory tubercle, 517
orbital gyrus, 497
parvocellular paraventricular nucleus, 231
periaqueductal grey, 127
pineal gland, 315
piriform cortex, 477
pons-medulla, 47
pontomesencephalic tegmentum, 603
posterior hypothalamus, 545
posterior nuclear area of the thalamus, 603
prefrontal cortex, 33, 155
preoptic anterior hypothalamus, 697
preoptico-anterior hypothalamus, 545
preoptic area, 429
pretectal/parafascicular area, 603
progesterone, 469
reticular area of the thalamus, 603
reticular nucleus of the medulla, 183
rostral brain stem, 121
septem, 145
stria terminalis, 491
striatum, 1, 49, 161, 331
subiculum, 477
substantia innominata, 477
substantia nigra, 603
subthalamic nucleus, 603
superior colliculus, 603
suprachiasmatic nucleus (SCN), 527, 681, 705
supraoptic nucleus, 681
tectum, 603
tegmental pedunculopontine, 377, 383
thalamus, 83, 155, 603
ventral hippocampus, 477
ventral tegmental area, 267
ventral tegmentum, 39
ventromedial hypothalamus, 477
ventro-medial mesencephalic tegmentum, 155
visual cortex, 661
zona incerta, 107, 383
Brain dopamine, 145
castration
testosterone replacement
Brain function, 549
diagnosis
epilepsy
magnetoencephalogram (MEG)
Brain stem projections, 183
caudal neurosecretory complex
HRP-EM study
Bombesin, 55
gastric acid secretion
gastric mucosal damage
lesions, amygdaloid
lesions, lateral hypothalamic
^{125}I-alpha-Bungarotoxin binding, 681
hypothalamus
in vitro
in vivo
morphometric evaluation

Calcium ATPase, 639
calcium channel
dihydropyridine
Mojave toxin
Calcium channel, 639
calcium ATPase
dihydropyridine
Mojave toxin
Calmodulin inhibitors, 673
acetylcholine (ACh)
ouabain
potassium
protein phosphorylation
tityustoxin
trifluoperazine
Capsaicin, 541
adrenocorticotropic hormone (ACTH)
cold stress
restraint stress
Castration
brain dopamine, 145
l-dopa, 1
dopamine receptors, 1
estrogen treatment, 1
testosterone replacement, 145
turning behavior, 1
Catalepsy, 25
ibotenic acid
lesions, globus pallidus
lesions, ibotenic acid-induced
locomotor activity
stereotypy
Catecholaminergic cell bodies, 341
immunohistochemistry
perikarya distribution
spinal cord
Catecholamines, 315
cysteamine effects
melatonin

pineal N-acetyltransferase (NAT)
somatostatin
thiol:disulfide exchange
Cats
acetylcholine (ACh), 491
aggression, 179
aggressive defensive behavior, 491
bed nucleus, stria terminalis (BNST), 179
caudate nucleus, 425
cortical projections, 497
EEG desynchronization, 121
EEG synchronization, 121
electroencephalogram (EEG), 545
encéphale isolé, 545
endogenous antipyretics, 99
fever, 99
functional recovery, 507
head turning, 425
horseradish peroxidase (HRP), 497
hypothalamus, 491
internal superior laryngeal nerve, 713
in vitro, 661
laminar distribution, 661
lesions, electrolytic, 491
locomotor activity, 507
α-melanocyte-stimulating hormone (α-MSH), 99
midline thalamic neurons, 545
neuromodulator receptors, 661
neuronal pathways, 497
neurotransmission receptors, 661
nucleus tractus solitarius (NTS), 497
posterior hypothalamus, 545
postnatal development, 661
preoptic neurons, 121
preoptico-anterior hypothalamus, 545
sensory-triggered movement, 425
spinal cord, 507
stimulation, electrical, 179
thermoregulatory mechanisms, 99
transganglionic projections, 713
visual cortex, 661
Caudal neurosecretory complex, 183
brain stem projections
HRP-EM study
Cerebral cortex
adrenocorticotrophic hormone (ACTH)-proopiomelanocortin, 107
cortical asymmetry, 395
lateral hypothalamic innervation, 107
α-melanocyte stimulating hormone (α-MSH), 107
prenatal stress, 395
sexual dimorphism, 395
Caudate nucleus, 425
cats
head turning
sensory-triggered movement
Cell-cell contacts, 723
fibroblast-free cultures
glial-enriched cell cultures
glial-fibroblast interactions
Cerebral vessels, 303
ganglionectomy
gerbils
perivascular nerves
p-Chloroamphetamine, 645
avoidance acquisition
memory retrieval
retention
serotonin (5-HT)
Cholecystokinin (CCK), 533
gonadotropin secretion
proglumide
Cholinergic limbic projections, 477
basal forebrain
lesions, basal forebrain
sexual behavior, male rats
Cholinergic systems, 603
basal forebrain
basal ganglia
pontomesencephalic tegmentum projections
tectum
thalamus
Chromosomal localization, 803
animal models
comparative gene mapping
Down Syndrome
trisomy
Chromosome translocation, 833
embryonic studies
neural tube closure defects
ultrastructural analysis
Circadian rhythm, 705
drinking
lesion placement
lesions, suprachiasmatic nucleus
locomotor activity
Circling, 267
dopamine systems
environmental stimuli
morphine
ventral tegmental area
Cochlea, 215
α-difluoromethylornithine (DFMO)
hearing
polyamines
Cochlear nucleus, 189
autoradiography
receptor distribution
Cold stress, 541
adrenocorticotropic hormone (ACTH)
capsaicin
restraint stress
Comparative gene mapping, 803
animal models
chromosomal localization
Down Syndrome
trisomy
Computer programs, 137
data processing
integration
Simpson's method
Copper sulfate, 5
area postrema
dimethylphenylpiperazinium (DMPP)
nicotinic receptors
vomiting
Cortical asymmetry, 395
cerebral cortex
prenatal stress
sexual dimorphism
Cortical projections, 497
cats
horseradish peroxidase (HRP)
neuronal pathways
nucleus tractus solitarius (NTS)
Cortical slices, 557
cryoprobe
neuronal inactivation
^{3}H-Corticosterone, 167
glucocorticoid receptor
hippocampus
in vitro
Cryoprobe, 557
cortical slices
neuronal inactivation
CSF 5-HIAA levels, 391
arginine vasotocin (AVP) administration
5-HT turnover
Cysteamine effects, 315
catecholamines
melatonin
pineal N-acetyltransferase (NAT)
somatostatin
thiol:disulfide exchange
Cytofluorimetric scanning, 63
adrenergic neurons
reserpine
sciatic nerve

Data processing, 137
computer program
integration
Simpson's method
Decortication, 733
FSH secretion
LH secretion
ovariectomy
plasma prolactin level
Dehydration, 415
drinking
intragastric saline load
intragastric water load
intraperitoneal saline load
intraperitoneal water load
isosmotic glucose
Developmental consequences, 789
autosomal aneuploidy
trisomy
Diagnosis, 549
brain function
epilepsy
magnetoencephalogram (MEG)
Diffuse agranular label, 259
axon terminals
horseradish peroxidase (HRP)
membrane-bound granular label
wheat germ-agglutinin-horseradish peroxidase (WGA-HRP)
α-Difluoromethylornithine (DFMO), 215
cochlea
hearing
polyamines
Dihydropyridine, 639
calcium ATPase
calcium channel
Mojave toxin
Dimethylphenylpiperazinium (DMPP), 5
area postrema
copper sulfate
nicotinic receptors
vomiting
(DOCA)-NaCl treatment, 93
hypertension
vasopressin release
l-Dopa
behavioral effects, 561
castration, 1
dopamine receptors, 1
estrogen treatment, 1
1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP), 561

monkeys, 561
Parkinson's disease, 561
turning behavior, 1
Dopamine concentration, 751
electroretinographic B-wave amplitude
6-hydroxydopamine (6-OHDA)
intravitreal injection
rabbits
retina
Dopamine pathways, 33
footshock
laterality
locomotor activity
selective activation
Dopamine receptors
autoradiography, 517
castration, 1
l-dopa, 1
estrogen treatment
prolactin, 331
serotonin receptors, 517
[^{3}H]spiperone, 517
turning behavior, 1
Dopamine release
apomorphine, 161
freely moving rats, 161
haloperidol, 161
push-pull cannula, 149
striatum, 149, 161
Dopamine systems, 267
circling
environmental stimuli
morphine
ventral tegmental area
Dopaminergic fibres, 689
ACh release
GABA receptors
nucleus basalis
Dopaminergic neurons, 155
inhibitory influence
neuroleptics
prefrontal cortex
Dorsolateral prefrontal cortex, 15
bar press-related neurons
monkeys
Dorsomedial hypothalamic projections, 231
pancreatic hormone release
Phaseolus vulgaris leucoagglutinin (PHA-L) tracing
Double labeling, 399
raccoons
somatosensory system
thalamocortical projection
Down Syndrome
animal models, 803
chromosomal localization, 803
comparative gene mapping, 803
human trisomy 21, 773
mental retardation, 773
neurobiological studies, 773
trisomy, 803
Drinking
angiotensin II, 249
circadian rhythm, 705
dehydration, 415
intragastric saline load, 407, 415
intragastric water load, 407, 415
intraperitoneal saline load, 407, 415
intraperitoneal water load, 407, 415
isomotic glucose, 415
lesion placement, 705
lesions, suprachiasmatic nucleus, 705
locomotor activity, 705
pharmacologic induction, 407
route of administration, 249
Drug
acetylcholine, 149, 429, 491
amphetamine, 25, 377, 689
d-amphetamine, 149, 483
angiotensin II, 407
apomorphine, 25, 161, 689
benztropine, 149
bethanechol, 407
caffeine, 483
capsaicin, 541
p-chloroamphetamine, 645
clonidine, 697
clozapine, 517
cysteamine, 315, 331
diaminobenzidine, 259
α-difluoromethylornithine (DFMO), 215
dihydropyridine, 639
dihydroxyphenylacetic acid (DOPAC), 751
dimethylphenylpiperazinium (DMPP), 5
dipyrone, 99
domperidone, 331
l-dopa, 1, 561
dopamine, 751
E. coli, 99
eserine, 149
flunitrazepam, 573
fluphenazine, 155
glucose, 281
glutamate, 429
haloperidol, 25, 155, 161, 331, 517
halothane, 149
homovanillic acid (HVA), 751
6-hydroxydopa, 47
6-hydroxydopamine (6-OHDA), 751
5-hydroxytryptophan, 407
ibotenic acid, 25
imipramine, 483
isoprenaline, 697
isoproterenol, 407
levomepromazine, 155
methylphenidate, 483
1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP), 561
metoclopramide, 517
morphine, 267, 363
^{3}H-morphine, 289
muscimol, 689
naloxone, 363
nitrendipine, 639
nitrous oxide, 321
noradrenaline, 429
norepinephrine, 463
pargyline, 149
pentazocine, 363
pentobarbital, 483
phenoxyphrine, 463
phentolamine, 697
picrotoxin, 377, 689
pipotiazine palmitic ester, 155
propranolol, 463
reserpine, 63
saralasin, 249
sodium glutamate, 377
spiroperidol, 155
sulpiride, 331
(±)sulpiride, 155
thioridazine, 517
Drug interactions, 363
metastatic tumor growth
morphine
naloxone
opiate receptors
pentazocine

EEG desynchronization, 121
cats
EEG synchronization
preoptic neurons
EEG synchronization, 121
cats
EEG desynchronization
preoptic neurons
Electrical stimulation, 299
hippocampal slice preparation
population spike
Electroencephalogram (EEG), 545
cats
encéphale isolé
midline hypothalamic neurons
posterior hypothalamus
preoptico-anterior hypothalamus
Electrophysiology, 527
excitatory amino acids
retino-hypothalamic pathway
Electroretinographic B-wave amplitude, 751
dopamine concentration
6-hydroxydopamine (6-OHDA)
intravitreal injection
rabbits
retina
Embryonic studies, 833
chromosome translocation
neural tube closure defects
ultrastructural analysis
Encéphale isolé
cats
electroencephalogram (EEG)
midline thalamic neurons
posterior hypothalamus
preoptico-anterior hypothalamus
Endogenous antipyretics, 99
cats
fever
α-melanocyte-stimulating hormone (α-MSH)
thermoregulatory mechanisms
Enteric neurons, 421
gamma-aminobutyric acid (GABA)
peripheral nervous system (PNS)
quails
Environmental stimuli, 267
circling
dopamine systems
morphine
ventral tegmental area
Epilepsy, 549
brain function
diagnosis
magnetoencephalogram (MEG)
Estrogen, 469
monoamine levels
priming actions
sexual behavior
Estrogen treatment, 1
castration
l-dopa

dopamine receptors
turning behavior
Euthermia, 289
ground squirrels
hibernation
^{3}H-morphine
Excitatory amino acids, 527
electrophysiology
retinohypothalamic pathway
Excitotoxin, 127
glutamate transmitter
lesions, N-methyl-D-aspartate
periaqueductal grey
Exencephaly, 825
abnormal extracellular matrix
trisomy

Fever, 99
cats
endogenous antipyretics
α-melanocyte-stimulating hormone (α-MSH)
thermoregulatory mechanisms
Fibroblast-free cultures, 723
cell-cell contacts
glial-enriched cell cultures
glial-fibroblast interactions
Field potentials, 553
frog optic tectum
in vitro
Flash evoked potentials, 225
lesions, superior colliculus
visual evoked potentials
Footshock, 33
dopamine pathways
laterality
locomotor activity
selective activation
Freely moving rats, 161
apomorphine
dopamine release
haloperidol
striatum
Frequency detection, 439
alpha rhythm
microprocessor
sleep spindles
synchronized electroencephalogram (EEG) activity
Frog optic tectum, 553
field potentials
in vitro
FSH secretion, 733
decortication
LH secretion
ovariectomy
plasma prolactin level
Functional recovery, 507
cats
locomotor activity
spinal cord

GABA receptors, 689
ACh release
dopaminergic receptors
nucleus basalis
Gamma-aminobutyric acid (GABA), 421
enteric neurons
peripheral nervous system (PNS)
quails
Ganglionectomy, 303
cerebral vessels
gerbils
perivascular nerves
Gastric acid secretion, 55
bombesin
gastric muscosal damage
lesions, amygdaloid
lesions, lateral hypothalamic
Gastric mucosal damage, 55
bombesin
gastric acid secretion
lesions, amygdaloid
lesions, lateral hypothalamic
Gerbils, 303
cerebral vessels
ganglionectomy
perivascular nerves
Glia-fibroblast interactions, 723
cell-cell contacts
fibroblast-free cultures
glial-enriched cell cultures
Glial-enriched, cell cultures, 723
cell-cell contacts
fibroblast-free cultures
glial-fibroblast cultures
Glucocorticoid receptor, 167
^{3}H-corticosterone
hippocampus
in vitro
Glucose, 281
amphetamine binding sites
appetite
hypothalamus
Glutamate transmitter, 127
excitotoxin
lesions, N-methyl-D-aspartate
periaqueductal grey
Glutamate uptake, 325
nodose ganglion
nucleus tractus solitarius (NTS)
vagal afferents
Gonadotropin secretion, 533
cholecystokinin (CCK)
proglumide
Ground squirrels, 289
euthermia
hibernation
^{3}H-morphine
Growth hormone secretion, 697
adrenoceptors
preoptic anterior hypothalamus
prolactin secretion
Guinea pigs
hemilabyrinthectomy
inferior olivary neurons
spinal cord transection
vestibular compensation

Haloperidol, 161
apomorphine
dopamine release
freely moving rats
striatum
Hamsters
lesions, dorsal midbrain, 39
lordosis, 39
somatosensory responsiveness, 39
superior laryngeal nerve, 271
Head turning, 425
cats
caudate nucleus
sensory-triggered movement
Hearing, 215
cochlea
α-fluoromethylornithine (DFMO)
polyamines
Hemilabyrinthectomy, 739
guinea pigs
inferior olivary neurons
spinal cord transection
vestibular compensation
Hibernation, 289
euthermia
ground squirrels
^{3}H-morphine
Hippocampal slice preparation, 299
electrical stimulation
population spike
Hippocampus
^{3}H-corticosterone, 167
glucocorticoid receptor, 167
in vitro, 167
kindling, 369
lever-pressing, 369
self-stimulation, 369
strain differences, 369
Histamine-H1 receptors, 205
autoradiography
3H-mepyramine binding
Purkinje cell degeneration
strain differences
Histofluorescence, 19
human brain tissue
Timm's method
Hormone
epinephrine, 697
β-estradiol benzoate, 1
estrogen, 469
growth hormone, 697
noradrenaline, 171
norepinephrine, 469, 697, 755
prolactin, 697, 733
Horseradish peroxidase (HRP)
axon terminals, 259
cats, 497
cortical projections, 497
diffuse agranular label, 259
membrane-bound granular label, 259
neuronal pathways, 497
nucleus tractus solitarius (NTS), 497
olfactory bulb, 445, 455
olfactory epithelium, 445, 455
topographical organization, 455
topographical projections, 445
wheat germ-agglutinin-horseradish peroxidase (WGA-HRP), 259
HRP-EM study, 183
brain stem projections
caudal neurosecretory complex
5-HT turnover, 391
arginine vasotocin (AVP) administration
CSF 5-HIAA levels
Human brain tissue, 19
histofluorescence
Timm's method
Human placentas, 309
immunoprecipitation
LHRH synthesis
mRNA
Human spinal cord, 355
autonomic function
kappa opioid receptors
sensory function

Human trisomy 21, 773
Down Syndrome
mental retardation
neurobiological studies
6-Hydroxydopamine (6-OHDA), 751
dopamine concentration
electroretinographic B-wave amplitude
intravitreal injection
rabbits
retina
Hypertension, 93
(DOCA)-NaCl treatment
vasopressin release
Hypoglycemia, 11
adrenomedullary response
age differences
hypoxia
neonates
splanchnic innervation
Hypothalamus
acetylcholine (ACh), 491
aggressive-defensive reaction, 491
amphetamine binding sites, 281
appetite, 281
^{125}I-alpha-bungarotoxin binding
cats, 491
glucose, 281
in vitro, 681
in vivo, 681
lesions, electrolytic, 491
microelectrophoresis, 429
morphometric evaluation, 681
neuron activity, 429
sleep-promoting substance, 429
Hypoxia, 11
adrenomedullary response
age differences
hypoglycemia
neonates
splanchnic innervation

Ibotenic acid, 25
catalepsy
lesions, globus pallidus
lesions, ibotenic acid-induced
locomotor activity
stereotypy
Immunofluorescence, 597
neuroblastoma cells
spectrin expression
spectrin subtypes
Immunohistochemistry, 341
catecholaminergic cell bodies
perikarya distribution
spinal cord
Immunoprecipitation, 309
human placenta
LHRH synthesis
mRNA
Inferior olivary neurons, 739
guinea pigs
hemilabyrinthectomy
spinal cord transection
vestibular compensation
Inhibitory influence, 155
dopaminergic neurons
neuroleptics
prefrontal cortex
Integration, 137
computer programs
data processing
Simpson's method
Internal superior laryngeal nerve, 713
cats
transganglionic projections
Interpeduncular nucleus, 219
medial habenula
subnuclei neurogenesis
Intragastric saline load
dehydration, 415
drinking, 407, 415
intragastric water load, 407, 415
intraperitoneal saline load, 407, 415
intraperitoneal water load, 407, 415
isosmotic glucose, 415
pharmacologic induction, 407
Intragastric water load
dehydration, 407, 415
drinking, 407, 415
intragastric saline load, 407, 415
intraperitoneal saline load, 407, 415
intraperitoneal water load, 407, 415
isosmotic glucose, 415
pharmacologic induction, 407
Intraperitoneal saline load, 415
dehydration, 407, 415
drinking, 407, 415
intragastric saline load, 407, 415
intraperitoneal water load, 407, 415
isosmotic glucose, 407, 415
pharmacologic induction, 407
Intraperitoneal water load
dehydration, 407, 415
drinking, 407, 415
intragastric saline load, 407, 415
intragastric water load, 407, 415
intraperitoneal saline load, 407, 415
isosmotic glucose, 415
pharmacologic induction, 407
Intravitreal injection, 751
dopamine concentration
electroretinographic B-wave amplitude
6-hydroxydopamine (6-OHDA)
rabbits
retina
Introductory comments, 767
autosomal trisomy
mental retardation
neurobiologic consequences
Invasion of varicosities, 171
acetylcholine release
myenteric plexus-smooth muscle preparation
noradrenaline
In vitro
^{125}I-alpha-bungarotoxin binding, 681
cats, 661
^{3}H-corticosterone, 167
field potentials, 553
frog optic tectum, 553
glucocorticoid receptor, 167
hippocampus, 167
hypothalamus, 681
in vivo, 681
laminar distribution, 661
morphometric evaluation, 681
neuromodulator receptors, 661
neurotransmitter receptors, 661
postnatal development, 661
visual cortex, 661
In vivo, 681
^{125}I-alpha-bungarotoxin binding
hypothalamus
in vitro
morphometric evaluation
Isosmotic glucose, 415
dehydration
drinking
intragastric saline load
intragastric water load
intraperitoneal saline load
intraperitoneal water load

Kappa opioid receptors, 355
autonomic function
human spinal cord
sensory function
Kindling, 369
hippocampus
lever-pressing
self-stimulation
strain differences

Laminar distribution, 661
cats
in vitro
neuromodulator receptors
neurotransmitter receptors
postnatal development
visual cortex
Lateral hypothalamic innervation, 107
adrenocorticotrophic hormone (ACTH)-proopiomelanocortin
cerebral cortex
α-melanocyte stimulating hormone (α-MSH)
Laterality, 33
dopamine pathways
footshock
locomotor activity
selective activation
Lesion placement, 705
circadian rhythm
drinking
lesions, suprachiasmatic nucleus
locomotor activity
Lesions, amygdaloid, 55
bombesin
gastric acid secretion
gastric mucosal damage
lesions, lateral hypothalamic
Lesions, basal forebrain, 477
basal forebrain
cholinergic limbic projections
sexual behavior, male rats
Lesions, dorsal bundle, 47
noradrenergic innervation
regeneration
sprouting
Lesions, dorsal midbrain, 39
hamsters
lordosis
somatosensory responsiveness
Lesion, electrolytic, 491
acetylcholine
aggressive-defensive reaction
cats
hypothalamus
Lesions, globus pallidus, 25
catalepsy
ibotenic acid
lesions, ibotenic acid-induced
locomotor activity
stereotypy

Lesions, ibotenic acid-induced, 25
  catalepsy
  ibotenic acid
  lesions, globus pallidus
  locomotor activity
  stereotypy
Lesions, lateral hypothalamus, 55
  bombesin
  gastric acid secretion
  gastric mucosal damage
  lesions, amygdaloid
Lesions, N-methyl-D-aspartate, 127
  excitotoxin
  glutamate transmitter
  periaqueductal grey
Lesions, septal-hippocampal area, 483
  non-operant activity
  operant responding
  psychoactive drugs
Lesions, superior colliculus, 225
  flash evoked potentials
  visual evoked potentials
Lesions, suprachiasmatic nucleus, 705
  circadian rhythm
  drinking
  lesion placement
  locomotor activity
Lever-pressing, 369
  hippocampus
  kindling
  self-stimulation
  strain differences
LH secretion
  decortication, 733
  FSH secretion
  ovariectomy
  plasma prolactin level
LHRH synthesis, 309
  human placenta
  immunoprecipitation
  mRNA
Limbic system, 573
  benzodiazepine binding sites
  radiography
Locomotor activity
  catalepsy, 25
  cats, 507
  circadian rhythm, 705
  dopamine pathways, 33
  drinking, 705
  footshock, 33
  functional recovery, 507
  ibotenic acid, 25
  laterality, 33
  lesion placement, 705
  lesions, globus pallidus, 25
  lesions, ibotenic acid-induced, 25
  lesions, suprachiasmatic nucleus, 705
  mesencephalic locomotor region, 377, 383
  neuronal cell bodies, 377
  selective activation, 33
  single pulse stimulation, 383
  spinal cord, 507
  stereotypy, 25
  subpallidal projections, 383
Lordosis, 39
  hamsters
  lesions, dorsal midbrain
  somatosensory responsiveness

Magnetoencephalogram (MEG), 549
  brain function
  diagnosis
  epilepsy
Medial habenula, 219
  interpeduncular nucleus
  subnuclei neurogenesis
Medial preoptic area, 463
  alpha adrenergic system
  sleep-wakefulness
α-Melanocyte stimulating hormone (α-MSH)
  adrenocorticotrophin hormone (ACTH)-proopiomelanocortin, 107
  cats, 99
  cerebral cortex, 107
  endogenous antipyretics, 99
  fever, 99
  lateral hypothalamic innervation, 107
  thermoregulatory mechanisms, 99
Melatonin, 315
  catecholamines
  cysteamine effects
  pineal N-acetyltransferase (NAT)
  somatostatin
  thiol:disulfide exchange
Membrane-bound granular label
  axon terminals
  diffuse agranular label
  horseradish peroxidase (HRP)
  wheat germ-agglutinin-horseradish peroxidase (WGA-HRP)
Memory retrieval, 645
  avoidance acquisition
  p-chloroamphetamine
  retention
  serotonin (5-HT)
Mental retardation
  autosomal trisomy, 767
  Down Syndrome, 773
  human trisomy 21, 773
  introductory comments, 767
  neurobiologic consequences, 767
  neurobiological studies, 773
3H-Mepyramine binding, 205
  autoradiography
  histamine-H1 receptors
  Purkinje cell degeneration
  strain differences
Mesencephalic locomotor region, 383
  locomotor activity 377, 383
  neuronal cell bodies, 377
  single pulse stimulation, 383
  subpallidal projections, 383
Metastatic tumor growth, 363
  drug interactions
  morphine
  naloxone
  opiate receptors
  pentazocine
Methionine-enkephalin-like-immunoreactivity, 321
  nitrous oxide
  regional brain levels
Method
  AChE pharmacohistochemistry, 603
  anterograde labeling, 259
  autoradiography, 75, 189, 205, 289, 517, 537, 597
  ChAT immunohistochemistry, 603
  cortical cup technique, 689
  cytofluorimetric scanning, 63
  electron microscopy, 183, 833
  electrophysiology, 527
  high performance liquid chromatography (HPLC), 751
  high pressure liquid chromatography (HPLC), 33, 421
  histofluorescence, 19
  horseradish peroxidase (HRP), 183, 259, 271, 445, 455, 497, 713
  immunofluorescence, 597
  immunohistochemistry, 107, 303, 341, 421
  immunoprecipitation, 309, 597
  light microscopic autoradiography, 681
  light microscopy, 833
  microelectrode recording, 83
  microscopy, 845
  Phaseolus vulgaris leuco-agglutinin (PHA-L) tracing, 231
  radiography, 573
  radioimmunoassay, 321
  retrograde tracing, 399
  tetramethylbenzidine method, 713
  Timm's method, 19
  wheat germ-agglutinin-horseradish peroxidase (WGA-HRP), 259
1-Methyl-4-phenyl-1,2,3,6- tetrahydropyridine (MPTP), 561
  behavioral effects
  l-dopa
  monkeys
  Parkinson's disease
Microelectrophoresis, 429
  hypothalamus
  neuron activity
  sleep-promoting substance
Microprocessor, 439
  alpha rhythm
  frequency detection
  sleep spindles
  synchronized electroencephalogram (EEG) activity
Midline thalamic neurons, 545
  cats
  electroencephalogram (EEG)
  encéphale isolé
  posterior hypothalamus
  preoptico-anterior hypothalamus
Mojave toxin, 639
  calcium ATPase
  calcium channel
  dihydropyridine
Monkeys
  bar press-related neurons, 15
  behavioral effects, 561
  l-dopa, 561
  dorsolateral prefrontal cortex, 15
  1-methyl-4-phenyl-1,2,3,6,-tetrahydropyridine (MPTP), 561
  Parkinson's disease
Monoamine levels, 469
  estrogen
  priming actions
  sexual behavior
Morphine
  circling, 267
  dopamine systems, 267
  drug interactions, 363
  environmental stimuli, 267
  metastatic tumor growth, 363
  naloxone, 363
  opiate receptors, 363
  pentazocine, 363
  ventral tegmental area, 267

^{3}H-Morphine, 289
euthermia
ground squirrels
hibernation
Morphometric evaluation, 681
^{125}I-alpha-bungarotoxin binding
hypothalamus
in vitro
in vivo
Mouse chimeras, 815
postnatal studies
trisomy
Muscular activation patterns, 435
phase plane
visual tracking
voluntary limb movements
Myenteric plexus-smooth muscle preparation, 171
acetylcholine release
invasion of varicosities
noradrenaline

Naloxone, 363
drug interactions
metastatic tumor growth
morphine
opiate receptors
pentazocine
Neonates, 11
adrenomedullary response
age differences
hypoglycemia
hypoxia
splanchnic innervation
Neural tube closure defects, 833
chromosome translocation
embryonic studies
ultrastructural analysis
Neurobiologic consequences, 767
autosomal trisomy
introductory comments
mental retardation
Neurobiological studies, 773
Down Syndrome
human trisomy 21
mental retardation
Neuroblastoma cells, 597
immunofluorescence
spectrin expression
spectrin subtypes
Neuroblasts, 853
D-amino acid oxidase
aneuploidy
postnatal rodent brain
tissue culture medium
Neuroleptics, 155
dopaminergic neurons
inhibitory influence
prefrontal cortex
Neuromodulator receptors, 661
cats
in vitro
laminar distribution
neurotransmitter receptors
postnatal development
visual cortex
Neuron activity, 429
hypothalamus
microelectrophoresis
sleep-promoting substance
Neuronal cell bodies, 377
locomotor activity
mesencephalic locomotor region
Neuronal inactivation, 557
cortical slices
cryoprobe
Neuronal pathways, 497
cats
cortical projections
horseradish peroxidase (HRP)
nucleus tractus solitarius (NTS)
Neurotensin, 755
behavioral effects
norepinephrine
regional brain concentrations
Neurotransmitter receptors, 661
cats
in vitro
laminar distribution
neuromodulator receptors
postnatal development
visual cortex
Nicotinic receptors, 5
area postrema
copper sulfate
dimethylphenylpiperazinium (DMPP)
vomiting
Nitrous oxide, 321
methionine-enkephalin-like-immuno-reactivity
regional brain levels
Nodose ganglion, 325
glutamate uptake
nucleus tractus solitarius (NTS)
vagal afferents
Non-operant activity, 483
lesions, septal hippocampal area
operant responding
psychoactive drugs
Noradrenaline, 171
acetylcholine release
invasion of varicosities
myenteric plexus-smooth muscle preparation
Noradrenergic innervation, 47
lesions, dorsal bundle
regeneration
sprouting
Norepinephrine, 755
behavioral effects
neurotensin
regional brain concentrations
Nucleus basalis, 689
ACh release
dopaminergic fibres
GABA receptors
Nucleus tractus solitarius (NTS)
cats, 497
cortical projections, 497
glutamate uptake, 325
horseradish peroxidase (HRP), 497
neuronal pathways, 497
nodose ganglion, 325
vagal afferents, 325

Olfactory bulb, 445
horseradish peroxidase (HRP), 445, 455
olfactory epithelium, 445, 455
topographical organization, 455
topographical projections, 445
Olfactory epithelium, 455
horseradish peroxidase (HRP), 455, 455
olfactory bulb, 445, 455
topographical organization, 455
topographical projections, 445
Operant responding, 483
lesions, septal-hippocampal area
non-operant activity
psychoactive drugs
Opiate receptors, 363
drug interactions
metastatic tumor growth
morphine
naloxone
pentazocine
Osmotic mini-pumps, 759
BASIC computer program
weight-adjusted pump filling concentration
Ouabain, 673
acetylcholine (ACh)
calmodulin inhibitors
potassium
protein phosphorylation
tityustoxin
trifluoperazine
Ovariectomy, 733
decortication
FSH secretion
LH secretion
plasma prolactin level

Pancreatic hormone release, 231
dorsomedial hypothalamic projections
Phaseolus vulgaris leuco-agglutinin (PHA-L) tracing
Parkinson's disease, 561
behavioral effects
l-dopa
1-methyl-4-phenyl-1,2,3,6-tetrahydro-pyridine (MPTP)
monkeys
Pentazocine, 363
drug interactions
metastatic tumor growth
morphine
naloxone
opiate receptors
Peptide
adrenocorticotrophic hormone (ACTH), 541
adrenocorticotrophic hormone (ACTH)-proopiomelanocortin, 107
angiotensin II (AII), 249, 745
atrial natriuretic polypeptide (ANP), 745
bombesin, 55
follicle stimulating hormone (FSH), 733
luteinizing hormone (LH), 733
α-melanocyte-stimulating hormone (α-MSH), 99, 107
neuropeptide Y, 63
neurotensin, 755
proglumide, 533
somatostatin, 315
vasotocin, 391
Periaqueductal grey, 127
excitotoxin
glutamate transmitter
lesions, N-methyl-D-aspartate
Perikarya distribution, 341
catecholaminergic cell bodies
immunohistochemistry
spinal cord

Peripheral nerve, 537
autoradiography
retrograde axonal transport
^{3}H N-succinimidyl propionate (^{3}H NSP)
Peripheral nervous system (PNS), 421
enteric neurons
gamma-aminobutyric acid (GABA)
quails
Perivascular nerves, 303
cerebral vessels
ganglionectomy
gerbils
Pharmacologic induction, 407
drinking
intragastric saline load
intragastric water load
intraperitoneal saline load
intraperitoneal water load
Phase plane, 435
muscular activation patterns
visual tracking
voluntary limb movements
Phaseolus vulgaris leuco-agglutinin (PHA-L) tracing, 231
dorsomedial hypothalamic projections
pancreatic hormone release
Pineal N-acetyltransferase (NAT), 315
catecholamines
cysteamine effects
melatonin
somatostatin
thiol:disulfide exchange
Plasma prolactin level, 733
decortication
FSH secretion
LH secretion
ovariectomy
Polyamines, 215
cochlea
α-difluoromethylornithine (DFMO)
hearing
Pontomesencephalic tegmentum projections, 603
basal forebrain
basal ganglia
cholinergic systems
tectum
thalamus
Population spike, 299
electrical stimulation
hippocampal slice preparation
Posterior complex, 83
somatosensory responses
ventrobasal complex
Posterior hypothalamus, 545
cats
electroencephalogram (EEG)
encéphale isolé
midline thalamic neurons
preoptico-anterior hypothalamus
Postnatal development
cats, 661
in vitro, 661
laminar distribution, 661
neuromodulator receptors, 661
neurotransmitter receptors, 661
retina, 845
trisomy 19 (Ts 19), 845
visual cortex, 661
Postnatal rodent brain, 853
D-amino acid oxidase
aneuploidy
neuroblasts
tissue culture medium
Postnatal studies, 815
mouse chimeras
trisomy
Potassium, 673
acetylcholine (ACh)
calmodulin inhibitors
ouabain
protein phosphorylation
tityustoxin
trifluoperazine
Prefrontal cortex, 155
dopaminergic neurons
inhibitory influence
neuroleptics
Prefrontal cortex neurons, 131
antidromic activation
threshold hunter
Prenatal stress, 395
cerebral cortex
cortical asymmetry
sexual dimorphism
Preoptic anterior hypothalamus, 697
adrenoceptors
growth hormone secretion
prolactin secretion
Preoptic neurons, 121
cats
EEG desynchronization
EEG synchronization
Preoptico-anterior hypothalamus, 545
cats
electroencephalogram (EEG)
encéphale isolé
midline thalamic neurons
posterior hypothalamus
Priming actions, 469
estrogen
monoamine levels
sexual behavior
Proglumide, 533
cholecystokinin (CCK)
gonadotropin secretion
Prolactin, 331
dopamine receptors
Prolactin secretion, 697
adrenoceptors
growth hormone secretion
preoptic anterior hypothalamus
Protein phosphorylation, 673
acetylcholine (ACh)
calmodulin inhibitors
ouabain
potassium
tityustoxin
trifluoperazine
Psychoactive drugs, 483
lesions, septal-hippocampal area
non-operant activity
operant responding
Purkinje cell degeneration, 205
autoradiography
histamine-H1 receptors
3H-mepyramine binding
strain differences
Push-pull cannula, 149
dopamine release
striatum

Quails, 421
enteric neurons
gamma aminobutyric acid (GABA)
peripheral nervous systems (PNS)

Rabbits, 751
dopamine concentration
electroretinographic B-wave amplitude
6-hydroxydopamine (6-OHDA)
intravitreal injection
retina
Raccoons, 399
double labeling
somatosensory system
thalamocortical projection
Radiography, 573
benzodiazepine binding sites
limbic system
Receptor distribution, 189
autoradiography
cochlear nucleus
Regeneration, 47
lesions, dorsal bundle
noradrenergic innervation
sprouting
Regional brain concentrations, 755
behavioral effects
neurotensin
norepinephrine
Regional brain levels, 321
methionine-enkephalin-like-immunoreactivity
nitrous oxide
Reserpine, 63
adrenergic neurons
cytofluorimetric scanning
sciatic nerve
Restraint stress, 541
adrenocorticotropic hormone (ACTH)
capsaicin
cold stress
Retention, 645
avoidance acquisition
p-chloroamphetamine
memory retrieval
serotonin (5-HT)
Retina
dopamine concentration, 751
electroretinographic B-wave amplitude, 751
6-hydroxydopamine (6-OHDA), 751
intravitreal injection, 751
postnatal development, 845
rabbits, 751
trisomy 19 (Ts 19), 845
Retinohypothalamic pathway, 527
electrophysiology
excitatory amino acids
Retrograde axonal transport, 537
autoradiography
peripheral nerve
^{3}H-N-succinimidyl propionate (^{3}H NSP)
mRNA, 309
human placenta
immunoprecipitation
LHRH synthesis
Route of administration, 249
angiotensin II (AII)
drinking

Sciatic nerve, 63
adrenergic neurons
cytofluorimetric scanning
reserpine

Selective activation, 33
dopamine pathways
footshock
laterality
locomotor activity
Self-stimulation, 369
hippocampus
kindling
lever-pressing
strain differences
Sensory function, 355
autonomic function
human spinal cord
kappa opioid receptors
Sensory-triggered movement, 425
cats
caudate nucleus
head turning
Serotonin (5-HT), 645
avoidance acquisition
p-chloroamphetamine
memory retrieval
retention
Serotonin receptors, 517
autoradiography
dopamine receptors
[^{3}H]spiperone
Sexual behavior, 469
estrogen
monoamine levels
priming actions
Sexual behavior, male rats, 477
basal forebrain
cholinergic limbic projections
lesions, basal forebrain
Sexual dimorphism, 395
cerebral cortex
cortical asymmetry
prenatal stress
Simpson's method, 137
computer programs
data processing
integration
Single pulse stimulation, 383
locomotor activity
mesencephalic locomotor region
subpallidal projections
Sleep-promoting substance, 429
hypothalamus
microelectrophoresis
neuron activity
Sleep spindles, 439
alpha rhythm
frequency detection
microprocessor
synchronized electroencephalogram (EEG) activity
Sleep-wakefulness, 463
alpha adrenergic system
medial preoptic area
Somatosensory responses, 83
posterior complex
ventrobasal complex
Somatosensory responsiveness, 39
hamsters
lesions, dorsal midbrain
lordosis
Somatosensory system, 399
double labeling
raccoons
thalamocortical projections
Somatostatin, 315
catecholamines
cysteamine effects
melatonin
pineal N-acetyltransferase (NAT)
thiol:disulfide exchange
Spectrin expression, 597
immunofluorescence
neuroblastoma cells
spectrin subtypes
Spectrin subtypes, 597
immunofluorescence
neuroblastoma cells
spectrin expression
Spinal cord
catecholaminergic cell bodies, 341
cats, 507
functional recovery, 507
immunohistochemistry, 341
locomotor activity, 507
perikarya distribution, 341
Spinal cord transection, 739
guinea pigs
hemilabyrinthectomy
inferior olivary neurons
vestibular compensation
[^{3}H]Spiperone, 517
autoradiography
dopamine receptors
serotonin receptors
Splanchnic innervation, 11
adrenomedullary response
age differences
hypoglycemia
hypoxia
neonates
Spontaneously hypertensive rats, 75
angiotensin II binding
autoradiography
^{125}I-[Sar^1,Ile^8]-AII
Sprouting, 47
lesions, dorsal bundle
noradrenergic innervation
regeneration
Stereotypy, 25
catalepsy
ibotenic acid
lesions, globus pallidus
lesions, ibotenic acid-induced
locomotor activity
Stimulation, electrical, 179
aggression
bed nucleus, stria terminalis (BNST)
cats
Strain differences
autoradiography, 205
hippocampus, 369
histamine-H1 receptors, 205
kindling, 369
lever-pressing, 369
3H-mepyramine binding, 205
Purkinje cell degeneration, 205
self-stimulation, 369
Striatum
apomorphine, 161
dopamine release, 149, 161
freely moving rats, 161
haloperidol, 161
push-pull cannula, 149
Subnuclei neurogenesis, 219
interpeduncular nucleus
medial habenula
Subpallidal projections, 383
locomotor activity
mesencephalic locomotor region
single pulse stimulation
^{3}H N-Succinimidyl propionate (^{3}H NSP), 537
autoradiography
peripheral nerve
retrograde axonal transport
Superior laryngeal nerve, 271
hamsters
Synchronized electroencephalogram (EEG) activity, 439
alpha rhythm
frequency detection
microprocessor
sleep spindles

Tectum, 603
basal forebrain
basal ganglia
cholinergic systems
pontomesencephalic tegmentum projections
thalamus
Testosterone replacement, 145
brain dopamine
castration
Thalamocortical projection, 399
double labeling
raccoons
somatosensory system
Thalamus, 603
basal forebrain
basal ganglia
cholinergic systems
pontomesencephalic tegmentum projections
tectum
Thermoregulatory mechanisms, 99
cats
endogenous antipyretics
fever
α-melanocyte-stimulating hormone (α-MSH)
Thiol:disulfide exchange, 315
catecholamines
cysteamine effects
melatonin
pineal N-acetyltransferase (NAT)
somatostatin
Threshold hunter, 131
antidromic activation
prefrontal cortex neurons
Timm's method, 19
histofluorescence
human brain tissue
Tissue culture medium, 853
D-amino acid oxidase
aneuploidy
neuroblasts
postnatal rodent brain
Tityustoxin, 673
acetylcholine (ACh)
calmodulin inhibitors
ouabain
potassium
protein phosphorylation
trifluoperazine
Topographical organization, 455
horseradish peroxidase (HRP)

olfactory bulb
olfactory epithelium
Topographical projections, 445
horseradish peroxidase (HRP)
olfactory bulb
olfactory epithelium
Transganglionic projections, 713
cats
internal superior laryngeal nerve
Trifluoperazine, 673
acetylcholine (ACh)
calmodulin inhibitors
ouabain
potassium
protein phosphorylation
tityustoxin
Trisomy
abnormal extracellular matrix, 825
animal models, 803
autosomal aneuploidy, 789
chromosomal localization, 803
comparative gene mapping, 803
developmental consequences, 789
Down Syndrome, 803
exencephaly, 825
mouse chimeras, 815
postnatal studies, 815
Trisomy 19 (Ts19), 845
postnatal development
retina
Turning behavior, 1
castration
l-dopa
dopamine receptors
estrogen treatment

Ultrastructural analysis, 833
chromosome translocation
embryonic studies
neural tube closure defects

Vagal afferents, 325
glutamate uptake
nodose ganglion
nucleus tractus solitarius (NTS)
Vasopressin release, 93
(DOCA)-NaCl treatment
hypertension
Ventral tegmental area, 267
circling
dopamine systems
environmental stimuli
morphine
Ventrobasal complex, 83
posterior complex
somatosensory responses
Vestibular compensation, 739
guinea pigs
hemilabyrinthectomy
inferior olivary neurons
spinal cord transection
Visual cortex, 661
cats
in vitro
laminar distribution
neuromodulator receptors
neurotransmitter receptors
postnatal development
Visual evoked potentials, 225
flash evoked potentials
lesions, superior colliculus
Visual tracking, 435
muscular activation patterns
phase plane
voluntary limb movements
Voluntary limb movements, 435
muscular activation patterns
phase plane
visual tracking
Vomiting, 5
area postrema
copper sulfate
dimethylphenylpiperazinium (DMPP)
nicotinic receptors

Weight-adjusted pump filling concentrations, 759
BASIC computer program
osmotic mini-pumps
Wheat germ-agglutinin-horseradish peroxidase (WGA-HRP)
axon terminals
diffuse agranular label
horseradish peroxidase
membrane-bound granular label

AUTHOR INDEX

Abbamondi, A. L., 689
Abdul Aleem, 545
Ahuja, G. K., 545
Akil, H., 107
Alafaci, C., 303
Allen, D. L., 469
Altar, C. A., 517
Amann, R., 541
Anderson, R. H., 395
Angel, I., 281
Anninos, P. A., 549
Aoki, C., 661
Arbo, T. E., 363
Arimura, A., 309
Arluison, M., 341
Astic, L., 445, 455
Avdelidis, D., 25

Baetge, G., 421
Bakaitis, J., 395
Barnes, M. I., 225
Bartolome, J. V., 215
Baum, M. J., 145
Bayer, S. A., 219
Beart, P. M., 127
Beckman, A. L., 289
Bedran de Castro, J. C., 733
Beleslin, D. B., 5
Berod, A., 341
Besson, M.-J., 149, 161
Billiar, R. B., 681
Blessing, W. W., 697
Bööj, S., 63
Borke, R. C., 259
Brown, M. H., 705
Brown, S. H., 435
Brownlee, R. D., 377
Brudzynski, S. M., 377
Brunette, J. R., 751
Brutus, M., 179
Burnstock, G., 303
Butcher, L. L., 603

Campbell, C., 369
Carnevale, N. T., 137
Casamenti, F., 689
Casey, K. L., 439
Casseday, J. H., 215
Cerat, A., 557
Chafetz, M. D., 19
Chambers, J. P., 639
Champney, T. H., 315
Charli, J. L., 309
Chen, Y.-F., 93
Chhina, G. S., 121, 463
Christie, M. J., 127
Cinelli, A. R., 131
Cohen, S., 309
Coleman, D. B., 597
Colpaert, F. C., 561
Cooke, J. D., 435
Cowen, T., 303
Coyle, J. T., 773, 815
Crockard, H. A., 303
Cropper, E. C., 83
Cros, J., 355
Cynader, M., 661

Dahlström, A., 63
Danguir, J., 161
Datta, S., 463
Davisson, M. T., 789
Day, T. A., 697
Deffenu, G., 689
Degryse, A. D., 561
Denbow, D. M., 99
Denoroy, L., 341
Deza, L. D., 507
Díaz de León, L., 309
Dietl, M., 341
Dohanich, G. P., 477
Dostrovsky, J. O., 713
Drumheller, A. L., 751, 755
Dungan, J., 639
Durie, D., 853
Dyer, R. S., 225

Edmonds, H. L., Jr., 299
Egizii, R., 713
Eidelberg, E., 507
Eigyo, M., 745
Eisenman, J. S., 83
Estin, C., 723

Ferreyra-Moyano, H., 131
Ferron, A., 155
Feuerstein, C., 341
Fink, D. J., 537
Fleming, D. E., 395
Fregly, M. J., 249, 407, 415
Frostholm, A., 189, 205

Gearhart, J. D., 773, 789, 803, 815
Geiselman, P. J., 55
German, D. C., 33
Gershon, M. D., 421
Gilbert, S. F., 853
Girault, J.-A., 149, 161
Globus, M., 145
Glowinski, J., 149, 155, 161
Goldstein, M., 63
Gomez, M. V., 673
Gomez-Gonzales, M., 1
Goodman, S. R., 597
Gouardères, C., 355
Greene, E., 853
Greenleaf, J. E., 415
Greenshaw, A. J., 759
Grijalva, C. V., 55
Gunion, M. W., 55
Gwyn, D. G., 497

Hall, S. E., 661
Halpain, S., 167
Hanamori, T., 271
Harding, J. W., 75
Harston, C. T., 47

Hauger, R., 281
Havens, M. D., 39
Hibbard, L. S., 75
Hoke, M., 549
Holloway, F. A., 483
Holmes, L. J., 267
Houghton, P. E., 377
Hruska, R. E., 331
Hulihan-Giblin, B., 281
Hwang, B. H., 75

Imura, H., 745
Inokuchi, A., 429
Inoue, M., 15
Itoh, H., 745
Iwasaki, K., 527

James, L. B., 127
Janowsky, A., 281
Jervois, P. M., 697
Jolicoeur, F. B., 751, 755
Joseph-Bravo, P., 309

Kadlec, O., 171
Katsuura, G., 745
Kinghorn, E., 395
Kirby, W., 853
Klisans-Fuenmayor, D., 47
Kokkinidis, M., 549
Kono, R., 491
Kopp, N., 355
Kostrzewa, R. M., 47
Kouchich, F. J., 321
Kriebel, R. M., 183
Krstić, S. K., 5

Laferrière, A., 369
Lafond, G., 751
Lamothe, L., 557
Larsson, P.-A., 63
Le Douarin, C., 155
Lehnertz, K., 549
Lembeck, F., 541
Lenn, N. J., 219
Leslie, R. A., 497
Lidsky, T. I., 425
Lindheimer, M. D., 93
Liou, S. Y., 527
Littlefield, J. W., 803
Liu, D. K., 75
Llados, Eckman, C., 289
Lorke, D. E., 845
Lucier, G. E., 713
Luine, V. N., 469
Luiten, P. G. M., 231
Lundmark, K., 63
Lütkenhöner, B., 549
Luu, M. D., 281
Lyons, D., 853

McCann, P. P., 215
McCann, S. M., 533, 733
McEwen, B. S., 167, 477
McLaughlin, P. J., 597
McMillen, B. A., 33

Mach, E., 573
Mallick, B. N., 121
Mameli, O., 739
Manetto, C., 425
Manier, M., 341
Marcel, D., 573
Mašek, K., 171
Mata, M., 537
Matsushita, A., 745
Melamed, E., 145
Menadue, M. F., 697
Millar, R. P., 309
Miller, J. D., 33
Miller, K. E., 183
Miller, M. M., 681
Milner, P. M., 369
Mogenson, G. J., 377, 383
Mohan Kumar, V., 121, 463, 545
Molotchnikoff, S., 557
Moran, T. H., 815
Morii, N., 745
Morin, C., 557
Morrison, M. R., 309
Morriss-Kay, G., 825
Morrow, T. J., 439
Mouchet, P., 341
Murer, G., 1
Myers, R. D., 99

Nakao, H., 491
Nakao, K., 745
Nance, D. M., 399
Nau, M. E., 259
Neale, R. F., 517
Needler, M. C., 661
Nguyen, L. H., 507
Nishino, H., 15
Nunez, A. A., 705

O'Donnell, P., 1
Ögren, S. O., 645
Olivier, P., 751
Oomura, Y., 15, 429
Oparil, S., 93
O'Shea, K. S., 833
Oster-Granite, M. L., 767, 773, 789, 815, 853

Pantev, Ch., 549
Paul, S. M., 281
Pavel, S., 391
Pazo, J. H., 1
Penit, J., 155
Pepeu, G., 689
Petrovic, S. L., 733
Pujol, J. F., 573
Purkiss, D., 537
Putz, B., 825

Quirion, R., 355
Quock, R. M., 321

Rael, E. D., 639
Rasmusson, D. D., 399
Reeves, R. H., 803
Reid, K. H., 299
Reiter, R. J., 315
Renner, K. J., 469
Rezvani, A. H., 99
Rhees, R. W., 395
Ribeiro, A. M., 673
Rigor, B. M., 299
Robertson, A., 369
Rose, J. D., 39
Rotter, A., 189, 205
Rowland, N. E., 249, 407, 415
Rutherford, J. G., 497

Saito, Y., 745
Sakamoto, M., 745
Saper, C. B., 107
Saucier, D., 445, 455
Savaki, H. E., 149, 161
Schurr, A., 299
Schweitzer, L., 215
Šeferna, I., 171
Seidler, F. J., 11
Shaikh, M. B., 179
Shaw, C., 661
Shibata, S., 527
Shiomi, T., 745
Shiono, S., 745
Shull, R. N., 483
Siegel, A., 179
Siegel, H. E., 179
Sikdar, S. K., 15
Simon, R. H., 363
Singer, H. S., 815
Singh, B., 121, 463, 545
Sivilotti, L., 553
Sjoerdsma, A., 215
Skolnick, P., 281
Slotkin, T. A., 11
Smith, D. V., 271
Somogyi, G. T., 171
Spampinato, U., 149, 161
Spanier, T., 167
Speciale, S. G., 33
Spyraki, C., 25
Steger, R. W., 315
Stone, G. A., 517
St-Pierre, S., 755
Sugawara, A., 745
Sved, A. F., 325

Taché, Y., 55
Tashiro, N., 491
ter Horst, G. J., 231
Thibault, J., 341
Thierry, A. M., 155
Tiemeyer, M., 815
Tolu, E., 739
Truong, N.-A., 149
Tseng, L.-F., 321
Tseng, M. T., 299
Tumilasci, O. R., 1

Ueki, S., 527

Valdes, J. J., 639
Vaughan, M. K., 315
Vernadakis, A., 723
Vijayan, E., 533
Vizi, E. S., 171

Walsh, J. H., 55
Wasley, A. M., 517
Watson, S. J., 107
Wayner, M. J., 639
Webb, S. M., 315
Weissmann-Nanopoulos, D., 573
West, C. A., 299
Wieczorek, C. M., 75
Wilkinson, M., 661
Willett, C. J., 497
Willoughby, J. O., 697
Winking, H., 845
Wise, R. A., 267
Woolf, N. J., 603
Wu, J.-Y., 75
Wu, M., 383

Yamada, T., 745

Zagon, I. S., 597, 765